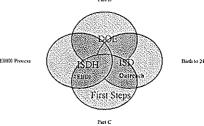
Indiana's Early Hearing Detection and Intervention (EHDI) Program

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Indiana State Agencies Serving Deaf and Hard of Hearing Children and their Families



EHDI

- > What do you know about Indiana's EHDI Program?
- > Have you seen a difference in children who were identified early because of UNHS?
- > What differences do have you seen in parents of our Indiana babies in the past 8 years since EHDI was implemented?

Presentation Overview

- > Incidence of Hearing Loss
- > Trends across the Country
- History of Early Hearing Detection and Identification (EHDI)
- > EHDI Goal Areas
- > Numbers, numbers, numbers!
- > Keeping Track of children
- > Family Support



Incidence of Hearing Loss

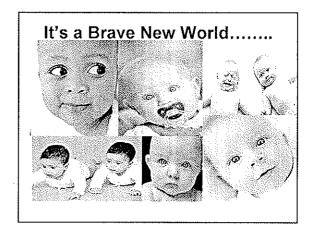
- > 1 in 300 babies is born with a hearing loss (3 per 1,000)
- > Most babies are screened at birth
- > As a result, babies are now being fitted with hearing aids as early as 4 weeks of age
- > An additional 6 children per 1,000 will develop permanent hearing loss by school age
- Consequently, hearing should be monitored throughout early childhood

Trends Across the Country

- Success in screening the majority of newborns by one month of age (improving from 5% in 1993 to 95% in 2006, CDC)
- > More effective technology-Earlier age of identification
- > Continued shortage of audiologists trained in pediatric procedures
- Shortage of educators and SLPs trained to work with "today's" deaf and hard of hearing children
- > Infants vs. toddlers, multiple conditions

Trends Across the Country

- > Increasing numbers of parents choosing cochlear implantation
- Parent empowerment, parent advocacy, parents as partners with professionals
- Shift in the Culture (94% of children are born to parents with normal hearing)
- > Mobilizations of forces at the federal level



Why is early identification of hearing loss important?

- Many children have hearing loss (3 per 1000 infants; another 6 per 1000 children acquire hearing loss during early childhood)
- Any degree of hearing loss can significantly impact a child's speech and language development
- Hearing loss impacts a child's life and may add information about the child—who is he is, the way that he will go.....
- Early identification and appropriate intervention make a difference!

History of EHDI

- ➤ Prior to 1990-Focus on high risk babies Average age of identification: 2 years;4 mos
- Healthy People 2000-Decrease age of identification to below age 12 months
- Healthy People 2010-Focus on 1-3-6;1-Screen, 3-Identification 6-Intervention



EHDI in Indiana

- > PL91-1999-"every infant receive a physiologic hearing screening at the earliest feasible time for the detection of hearing loss."
- > Religious refusal=only acceptable reason to refuse screening
- > All birthing facilities were to be in compliance with the law by July 1, 2000.



National Numbers - 2006 Data

Incidence of Hearing Loss: 1.2 per 1,000 screened babies

% Referred to Part C EI: 87.4%
% Enrolled in Part C EI: 52.5%
% Receiving Non-Part C EI: 8.2%
%Receiving No EI Services: 39.3%

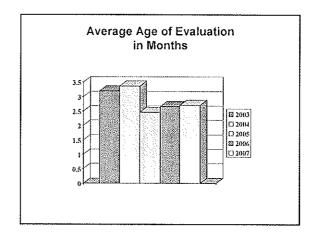
> % LFU/LTD: 33.9%

National Numbers vs Indiana Numbers – 2006 &2007 Data

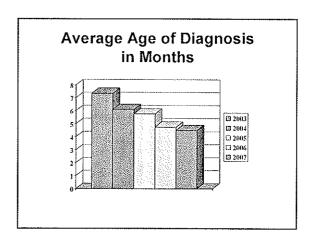
	National	IN 06	IN 07
% screened	92.2%	97.8%	98.1 %
% not passing	2.1%	1.9%	1.9%
% normal hearing	29.9%	73%	65%
% hearing loss	5.8%	7%	7.5%
% lost to follow up	46.3%	15%	20.8%

More and more babies

- > 75 Babies were identified with hearing loss in 2003 (.76 per 1000 births)
- > 101 Babies were identified with hearing loss in 2004 (1.03 per 1000 births)
- > 108 Babies were identified with hearing loss in 2005 (1.1 per 1000 births)
- > 127 Babies were identified with hearing loss in 2006 (1.3 per 1000 births)
- > 132 Babies were identified with hearing loss in 2007 (1.4 per 1000 births)



Loss to Follow-Up/Documentation



EHDI in Indiana Components of the Program

- > 1-3-6
- > Medical Home
- > Family Support
- > Interagency Cooperation



EHDI in Indiana: Partners and Stakeholders

- > 105 birthing facilities
- > Physicians and nurses, local health depts
- > Early intervention direct service providers
- State and private entities and organizations
- > Indiana State Dept of Health EHDI Advisory Committee
- > THE BABIES AND THEIR PARENTS!

EHDI in Indiana Staff working at EHDI

State Coordinator
UNHS Nurse Consultant
EARS Follow-Up Coordinator
Parent Consultant
Regional Audiology Consultants

The EHDI Alert Response System (EARS)

EARS is a web-based application that:

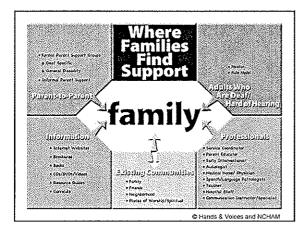
- allows hospitals and audiologists to enter information directly into a data store;
- allows Indiana EHDI staff almost instantaneous access
- generates alerts and informs the appropriate staff member re: the next follow-up action.

Indiana EHDI and Support of the Family

- > Role of the EHDI Parent Consultant
- > The Touchstone Approach
- > Connecting families with resources
- > Working with other state and community agencies
- > Providing continuing education
- > New program-Guide By Your Side!

EHDI encourages families to:

- > Work in partnership with professionals as part of a team
- Know their rights regarding service provision, financial support, reimbursement, etc.
- > Talk with other parents
- > Understand what information should be provided at appointments and meetings



EHDI - First Steps Help Kit

- > Tool for consistent provision of services to families across the state
- > Step-by-step procedures for UNHS referrals
 - Referral process from EHDI to First Steps
 - Follow-up processes based on diagnostic findings

First Steps Referrals include:

- > Babies who "did not pass" UNHS in one or both ears
- Babies who passed UNHS, but had one or more risk factors for late onset hearing loss
- > Babies who could not be screened due to ear malformations

Overview of Referral Process

- > Hospital/birthing facility
 - reports all hearing screening referrals to ISDH
 - refers babies not passing and those with risk factors to the appropriate SPOE
- > ISDH sends re-referral to the SPOE via secured email to ensure that children are not lost to follow-up

Overview of Audiological Follow-up

- ➤ First Steps assists family in choosing a provider and scheduling diagnostic testing (Level 1 Audiology Facility list)
- > Reciprocal release should be signed
- ➤ Physician Health Summary form obtained and sent to audiologist

Level 1 Audiology Providers

- > Identified based on survey of audiologists in or bordering Indiana
- Level of facility determined based on use of specialized equipment necessary for accurately assessing infants' hearing
- Remember, Level 1 facilities may not be a First Steps Provider and not all First Steps Providers are Level 1 facilities

A Word about Risk Factors



State-recommended First Steps follow-up:

- Family History
- · In utero infection
- Hyperbilirubinema (if exchange transfusion)
- Ear malformation that prohibits screening

Screening Status: Did Not Pass

- ➤ Baby is referred for follow-up audiological testing, which should be scheduled as soon as possible, but no later than 3 months of age
- > Baby's hearing should be evaluated until a diagnosis is obtained.
- > Approximately 10% of referred babies will have a hearing loss

Screening Status: Passed UNHS with Risk Factors

- At 7 months of age ISDH sends a reminder letter to families regarding need for follow-up hearing evaluation at 9-12 months of age
- > Receive follow-up at 9-12 months of age and then as recommended by the audiologist

Diagnostic Status: Normal Hearing (with or without Risk Factors)

- Encourage the family to follow audiologist's recommendations for retesting
- Provide family with Language and Hearing Developmental Milestones and encourage family to discuss any future concerns regarding hearing or development with primary care physician

Diagnostic Status: Hearing Loss

- > Schedule ED team evaluation as required
- IC will schedule an IFSP meeting according to FS timelines
- Include managing audiologist in the IFSP meeting (written input can be provided by audiologist if they cannot attend in person)
- Inform audiologist when services can be provided (send copy of IFSP)

Diagnostic Status: Hearing Loss



- Make sure family has received copy of Family Resource Guide
- If not, have family contact EHDI Program at 1-888-815-0006 for assistance
- Audiologist will complete Request for Authorization for Audiology Services form

Authorizing Payment for Hearing Aid Related Services

- Fax Request for Authorization for Audiology Services to SC
 - When authorizations entered in system, audiologist can dispense equipment and provide services
 - Hearing aids must be ordered with loss/damage warranties coverage through child's 3rd birthday
- An otologic evaluation by an otolaryngologist (ENT physician) must be completed prior to the fitting of hearing aids
 - This is not a FS responsibility but is typically recommended by the audiologist and arranged through the infant's primary care physician.
- BAHA and Cochlear implants are not a covered service through FS

Authorizing Payment for Hearing Aid Related Services

- Hearing aids or hearing aids digital monaural or binaural
- Hearing aid evaluation/examination and selection - monaural or binaural
- Dispensing fee monaural or binaural
- > Hearing service miscellaneous (earmolds)
- Hearing aid management
- Hearing aid batteries
- Hearing aid supplies pediatric hearing aid kit

Diagnostic Status: Hearing Loss and the IFSP

- > Hearing aid evaluation, fitting, and follow-up
- Follow-up hearing testing to further define hearing loss and to monitor hearing levels.
- Family education to discuss results of evaluation, care and use of hearing aids, encourage adjustment to hearing aids, wearing schedule, implications of hearing loss, etc.

Ongoing Audiological Services and the IFSP

- > Examples of IFSP strategies:
 - · Further define unaided hearing thresholds
 - Verify and adjust hearing aid settings as hearing loss is further defined
 - Monitor performance with hearing aids
 - Counsel families on the care and use of hearing aids and monitor communication development.

REFER TO HELP KIT FOR EXAMPLES

REMEMBER THE AUDIOLOGIST AT IFSP TIME!

- Several months before expiration of active IFSP, inform and include audiologist in any IFSP review so they can provide updates and provide a new Audiology PA request
- > The Request for Authorization for Audiology Services form should include requests for services and equipment (i.e. batteries, earmolds) as necessary.

Parents FAQs: Talking Points

When a family doesn't understand why follow-up is necessary, explain that:

- Rule out any amount of hearing loss in one or both ears
- Diagnostic testing clarifies how your baby is hearing
- Even if your baby responds to sounds, a mild or moderate hearing loss or a hearing loss in one ear may still be present
- > Follow-up testing is safe and painless
- Any degree of hearing loss can potentially impact speech and language development

Parents FAQs: Talking Points

When a baby has risk factors and it's time for follow-up:

- A baby can develop hearing loss even after passing UNHS
- Your baby was identified as having a risk factor for hearing loss and needs to be checked again
- Hearing loss is invisible and you can't be sure without further testing that your baby's hearing is normal
- Speech/language and hearing milestones should be closely watched

Parents FAQs: Talking Points

For families whose infant has been diagnosed with a hearing loss:

- Acknowledge the parent's feelings. A sincere, caring attitude, even if you don't have all the answers is noticed and appreciated.
- Consider the parents feelings as well as the specific needs of the child
- If families have questions that you cannot answer, have them contact the ISDH EHDI Coordinator or Parent Consultant

Parents FAQs: Talking Points

For families whose infant has been diagnosed with a hearing loss:

- Assist the families in obtaining the intervention that they have chosen for their baby
- Give them information about parent support groups in your area. Parents want and need the support of other parents
- Encourage family to look at the Family Resource Guide (provided by audiologist and EHDI) and recommended websites for information

Family Support Services

- Provide family support information to families including how to connect to the SKI*HI Program and family support organizations (Indiana Hands & Voices, HEAR Indiana, American Society for Deaf Children)
- If family chooses to pursue SKI*HI, include SKI*HI Parent Advising on the IFSP, Section 9 (Related Services) and notify Outreach Services for Deaf/Hard of Hearing regarding the referral
- Refer to Ski Hi kit provided by Outreach Services at Indiana School for the Deaf for specific procedures
- > Additional new programming on its way!

If Family chooses not to Pursue First Steps' Services

- Encourage the family to schedule a diagnostic assessment with their chosen audiology provider
- Help them locate an audiologist who is equipped and experienced in evaluation of infants. (Level 1 Facility)
- Answer any questions families may have and/or refer or redirect them to the EHDI Program – 1-888-815-0006

If Families Choose Not To Pursue First Steps' Services

- Refer to Children's Special Healthcare Services (CSHCS) can provide funding for diagnostic testing if the family meets enrollment criteria
- > CSHCS phone number:

1-800-475-1355

> Investigate personal insurance or Medicaid eligibility.

Coming Soon to a Location Near You!

- > EHDI-First Steps Help Kits
- > Even earlier identification, diagnosis and intervention
- > Indiana Guide By Your Side program
- > More positive outcomes for CHILDREN!!